

1718 Ex I/O

Intrinsically safe distributed I/O for Zone 1 applications

1718 Ex I/O is an intrinsically safe distributed I/O platform that can be mounted in Zone 1 hazardous areas. The I/O solution can connect field devices in Zone 0 and Zone 1 hazardous areas via EtherNet/IP™ cables.

The scalable platform offers flexible configuration options from 10-slot to 40-slot chassis to meet various system requirements. To optimize installation space, the primary power supply and an optional power supply for redundancy can be installed within the chassis. Premier Integration of 1718 Ex I/O with the Integrated Architecture® system is achieved through Add-on Profiles, which allow easy configuration.

Advantages

Intrinsically safe I/O to satisfy application requirements

- 1718 Ex I/O is certified for Zone 1 mounting, in certified enclosures*

Tight integration with Integrated Architecture system for easy configuration

- Connects on EtherNet/IP in Zone 0 and Zone 1
- Supports Studio 5000 Logix Designer® application version 24 or later with Add-on Profiles

Maximum efficiency in small space

- Compact, chassis-based I/O design
- Saves installation space as the power supply sits in the chassis and is included in the chassis width

Reliable and scalable system

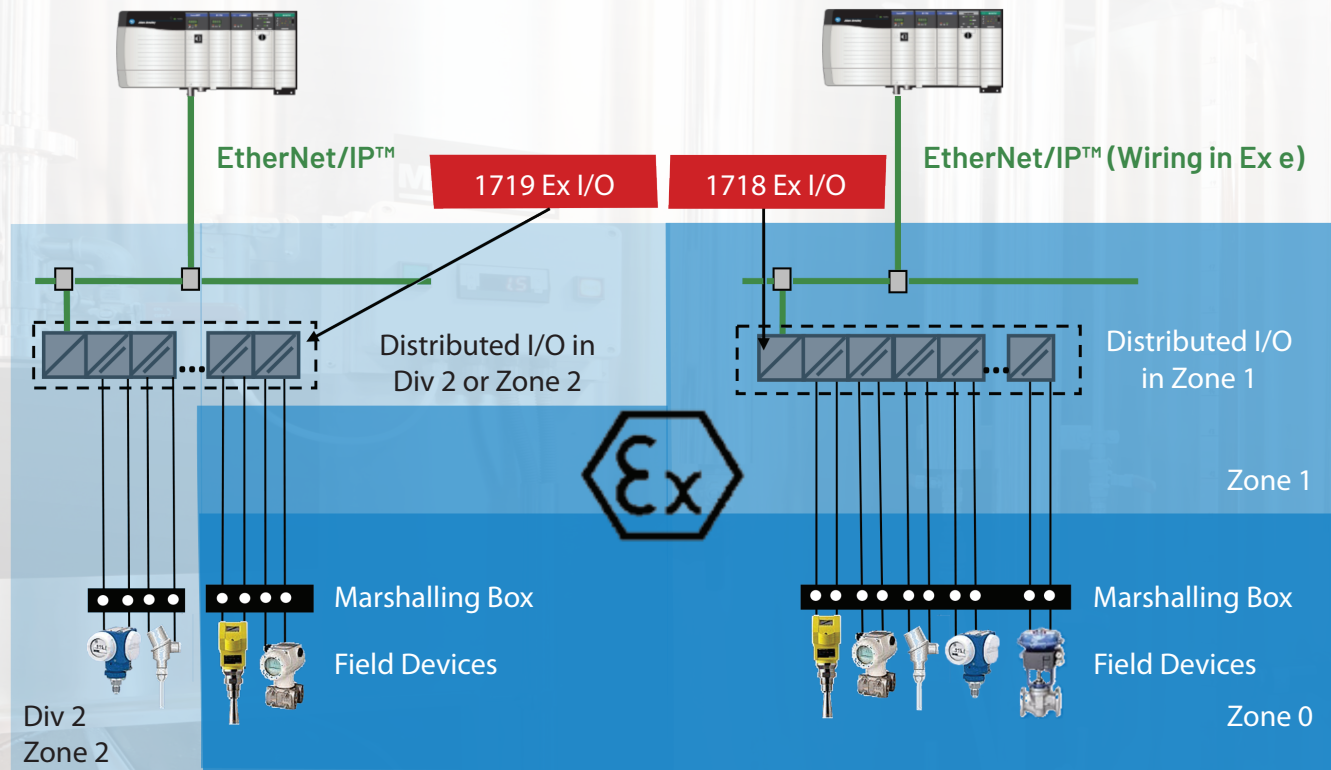
- System redundancy is possible with use of optional power supply
- Device Level Ring (DLR) support is enabled with dual EtherNet/IP ports on adapter
- HART 7 support is standard on all analog modules
- EtherNet/IP cables allow connection between 1718 Ex I/O chassis and other non-Ex adapters or switches

* Rockwell Automation collaborates with our Encompass™ partner, Pepperl+Fuchs, who offers Zone 1 certified enclosures. For more information, see the [Encompass partner profile](#).



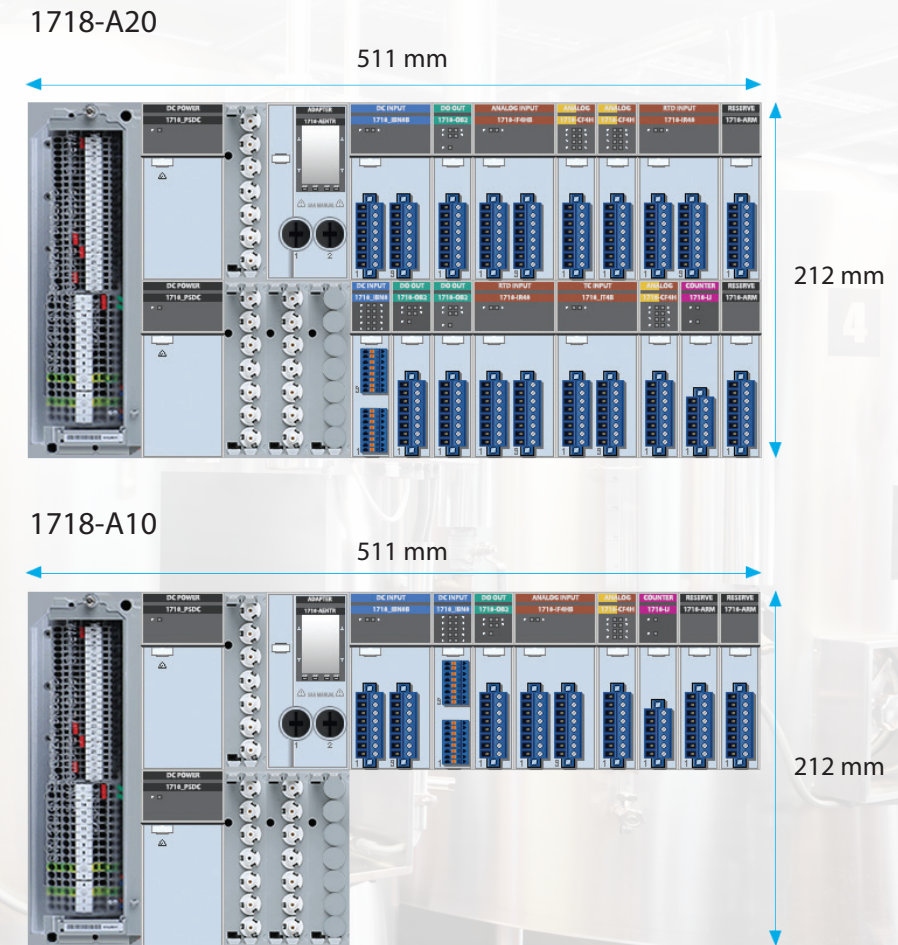
Requires enclosure

Intrinsically safe distributed I/O for Division and Zone applications



Images are for illustration purpose only.

Chassis dimensions for catalogs 1718-A10 and 1718-A20



Modules

Catalog number	Description
1718-CF4H	4-channel HART analog configurable
1718-IBN8	8-point digital input NAMUR
1718-IBN8B	8-point digital input NAMUR wide
1718-IF4HB	4-channel HART analog input wide
1718-IJ	Frequency counter
1718-IR4B	4-channel RTD input wide
1718-IT4B	4-channel thermocouple input wide
1718-OB2	2-point digital output 23V
1718-OB2L	2-point digital output 16.5V
1718-ARM	Empty slot cover

Accessories





Catalog number	Description
1718-PSDC	DC power supply
1718-A10	10-slot chassis
1718-A20	20-slot chassis
1718-AENTR	EtherNet/IP adapter
1718-CBL3	Chassis extension cable 3 m
1718-E4UBDE-1	M12-M12 EtherNet/IP cable, 1 m
1718-E4UBDE-20	M12-M12 EtherNet/IP cable, 20 m
1718-E4UBDE-40	M12-M12 EtherNet/IP cable, 40 m
1718-E4UBDE-100	M12-M12 EtherNet/IP cable, 100 m
1718-E4UBJM-2	M12-RJ45 EtherNet/IP cable, 2 m
1718-E4UBJM-20	M12-RJ45 EtherNet/IP cable, 20 m
1718-E4UBJM-40	M12-RJ45 EtherNet/IP cable, 40 m
1718-E4UBJM-100	M12-RJ45 EtherNet/IP cable, 100 m

Environmental specifications

Specification	Description
Ambient temperature	-20...60 °C (-4...140 °F)
Storage temperature	-25...85 °C (-13...185 °F)
Relative humidity	95% noncondensing
Shock resistance	<ul style="list-style-type: none"> Shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18 EN 60068-2-27:2009
Vibration resistance	<ul style="list-style-type: none"> Frequency range 10...150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles Frequency range 5...100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance EN 60068-2-6:2008
Certifications	Zone 1, ATEX, IECEx, CE, C-Tick/RCM, Marine

See [1718 Ex I/O Technical Data \(1718-TD001\)](#) for more information.

Visit rok.auto/1718exIO

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